

CLAIMS

1. An explosive detection system comprising:
a device that scans an object and generates information about the object from the
5 scan; and
an external computer, located remotely from the device, that receives the
information and implements an algorithm to make a threat determination about the
object.
- 10 2. The system of claim 1 wherein the device includes a CT scanner.
3. The system of claim 1 wherein the device includes a dual energy X-ray scanner.
4. The system of claim 1 wherein the device includes a combination dual energy X-
15 ray and CT scanner.
5. The system of any of claims 1-4 wherein the information includes that from
which a density and a mass of the object can be determined by the computer.
- 20 6. A method for making a threat determination about an object comprising:
scanning the object with an explosive detection device;
generating information about the object from the scan;
transmitting the information to an external computer, located remotely from the
device; and
25 with the computer, implementing an algorithm to make a threat determination
about the object.
7. The method of claim 6 wherein the step of scanning includes the step of
performing a computed tomography scan with a CT scanner.
- 30 8. The method of claim 6 wherein the step of scanning includes the step of
performing a high energy and a low energy scan using a dual energy X-ray scanner.

9. The method of claim 6 wherein the step of scanning includes performing a high and low energy X-ray scan and a computed tomography scan using a combination dual energy X-ray and CT scanner.

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10. The method of any of the previous claims 6-9 wherein the information includes that from which a density and a mass of the object can be determined by the computer.